	Application No.	Applicant(s)
Notice of Allowability	09/904,168	HARMSE, MAGIEL J.
	Examiner	Art Unit
	Thomas K Pham	2121
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to amendment filed 5/24/2004.		
,	72004.	
2. The allowed claim(s) is/are <u>1-86</u> .		
3. The drawings filed on 14 September 2001 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), 'Mail Date Amendment/Comment Statement of Reasons for Allowance

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Reasons for Allowance

1. Claims 1-86 are allowed.

2. The following is an examiner's statement of reasons for allowance:

While Mozumder (5,408,405) teaches controlling a plurality of process control variables in a discrete system utilizing process models with plurality of parameters associated with plurality of control variables including exercising statistical quality control tests on the parameters is measured at intervals and continue processing when the statistical quality control tests are successful.

Lim discloses optimizing a relationship of variables associated with a process including obtaining a vector of step response coefficients by performing plant tests on the process such as a pseudo-random binary noise test (PRBN).

Gabriel discloses a self-adaptive organizing controller that capable of adjusting the characteristics in accordance with a changing environment.

And Stoddard discloses a run-to-run controller for controlling manufacture processes including one or more internal models with user interface allows users to utilized their own models for run-to-run control.

None of these references taken either alone or in combination discloses a method and device of modeling a process system having all the claimed features of applicant's instant invention, specifically including: "augmentation of an initial model using 'shadow system variables' that are 'essentially copies of the input' manipulated variables wherein each shadow system variable has no other model curves except against its own manipulated variables to control the subject process system with large independent step changes in one shadow system

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variable at a time." Also, there is no motivation to combine the ... reference with the ...

reference to meet these limitations. It is for these reasons that applicant's invention defines over

the prior art of record.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to examiner *Thomas Pham*; whose telephone number is (703) 305-7587 and fax number is

(703) 746-8874. The examiner can normally be reached on Monday-Thursday and every other Friday

from 7:30AM-5:00PM EST or contact Supervisor, Mr. Anthony Knight, can be reached on (703) 308-

3179.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas Pham

Patent Examiner

TP

July 6, 2004

Anthony Knight

Supervisory Patent Examiner

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